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ARMY CONCEPT TEAM IN VIETNAM
APO 143, San Francisco, California

ACTIV-AM

5 September 1963

SUBJECT: ~~Supplement Number 3 to Final Report of~~ Armed Helicopter Test (U).
(1 - 31 July 1963) (U)

TO: See Distribution

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This is the third and final of a series of supplements covering monthly reporting periods which commenced at the end of the Armed Helicopter Test*. This supplement covers the period 1 - 31 July 1963.

The unit that generated the data for this supplement is the Utility Tactical Transport Helicopter Company (UTTHCO). Personnel and equipment status of the UTTHCO is as follows:

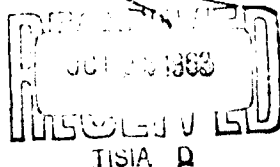
<u>Personnel</u>	<u>TD Authorization</u>	<u>Present for Duty</u> <u>31 July</u>
Officers	14	42
Warrant Officers	16	11
Enlisted Men	83	92

<u>Equipment</u>	<u>TD Authorization</u>	<u>On Hand - 30 June</u>
Armed Helicopter, UH-1	25 ARE	20

On 1 August 1963 a second armed helicopter test* was started by the Army Concept Team in Vietnam. It is entitled "Armed Helicopter Escort of Transport Helicopters (C)". The purpose of the test is "to determine whether the findings and conclusions of previous testing of armed escort helicopters are applicable to operations conducted in different terrain, under different weather conditions, and employing a different transport helicopter (C)".

The authority and procedures for the second armed helicopter test are contained in: Department of the Army letter, AGAM-P (M) 381 (31 October 1962) DCSOPS, subject "Army Troop Test Program in Vietnam (U)", 6 November 1962 as amended and letter, United States Military Assistance Command, Vietnam, subject "Evaluation of Armed Helicopter Escort of Transport Helicopters (C)", dated 9 August 1963.

The new test, requiring four months, will be completed on 30 November 1963.



Thomas O. Blakeney
THOMAS O. BLAKENEY
Colonel, Armor
Chief

*Operational Evaluation of Armed Helicopters (C)", Short Title OPENAH, Final Test Report, ACTIV, APO 143, San Francisco, California, 10 May 1963.

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TABLE 1

SELECTED MISSION DATA

<u>Operations</u>	16 Oct 62 to <u>30 June 63</u>	<u>1 - 31 Jul 63</u>	16 Oct 62 to <u>31 Jul 63</u>
Number of Missions	139	49	188
Mission Hours	1,309	274	1,583
Combat Support Hours	3,404	620	4,024
UH-1 Sorties (armed)	3,533	1,068	4,601
UH-1 Sorties (Transport)	315	105	420
CH-21 Sorties	5,657	715	6,372
CH-34 Sorties	145	233	379
Landing Zones Protected	405	107	512
Eagle Flights escorted	32	3	35
Med Evac Flights escorted	20	0	20
<u>Armament</u>			
Missions in Which Fire was Returned	116	44	160
7.62mm Rounds Expended	278,190	145,030	423,220
2.75" Rockets Expended	2,353	1,075	3,428
<u>Effects</u>			
Estimated Insurgent casualties (KIA+WIA)	526	703	1,229
US KIA	2	1	3
US WIA	6	3	9
UH-1s Hit by Insurgent Fire	34	14	48
Number of Hits on UH-1s	46	24	70
UH-1s Disabled by Insurgent Fire	1	0	1
<u>Aircraft Availability</u>			
	<u>1 - 30 June 63</u>	<u>1 - 31 Jul 63</u>	
Average Number of UH-1s On Hand		20	20
Average Number of UH-1s Flyable		17.1	16.03
Average Availability Rate		89.08	80.00

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TABLE 2
MISSION SUMMARY
1-31 July 1963

Date	4 JULY	4 JULY	5 JULY	5 JULY	6 JULY	6 JULY	7 JULY	8 JULY	8 JULY	9 JULY	9 JULY	10 JULY	11 JULY	11 JULY	12 JULY	12 JULY	13 JULY	13 JULY
Mission Nr	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157
UH-1Bs Used (armed)	3	2	5	2	5	5	3	2	5	2	2	5	2	2	5	5	3	6
UH-1B Sorties (armed)	12	8	30	12	74	29	24	18	24	16	20	40	12	3	36	20	12	72
Combat Support Hours Flown by UH-1Bs	6	3	21	6	21	21	10	5	14	6	6	22	3	2	14	10	9	43
CH-21s Escorted	0	0	8	0	0	6	3	0	5	2	4	5	2	0	4	8	2	11
CH-21 Sorties	0	0	32	0	0	21	9	0	9	8	12	40	8	0	36	16	10	70
CH-34s Escorted	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0
CH-34 Sorties	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0
UH-1Bs Escorted (transport)	1	1	0	1	2	0	0	1	0	0	1	0	0	1	0	1	0	2
UH-1B Sorties (transport)	2	2	0	6	6	0	0	20	0	0	2	0	0	2	0	2	0	10
Nr Landing Zones Protected	1	1	2	2	3	2	1	4	1	1	3	2	1	2	1	1	2	4
Nr Medical Evac Missions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nr Prisoner Pickups	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nr Eagle Flights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mission Duration (hours)	2	3	9	4	8	5	5	6	9	4	4	9	2	3	4	3	4	12

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TABLE 2 (cont.)
MISSION SUMMARY
1-31 July 1963

Date	14 July	15 July	16 July	16 July	17 July	17 July	18 July	18 July	19 July	19 July	19 July	19 July	20 July	22 July	23 July	23 July	24 July	24 July
Mission Nr	158	159	160	161	162	163	164	165	166	167	168	169	170	169	171	172	173	174
UH-1Bs Used (armed)	7	3	2	9	2	5	3	2	8	2	5	2	3	7	6	2	6	4
UH-1B Sorties (armed)	32	12	14	27	12	30	27	6	24	8	50	12	36	24	20	7	36	24
Combat Support Hours Flown by UH-1Bs	23	5	6	18	4	17	11	3	17	2	21	7	15	15	18	3	20	17
CH-21s Escorted	10	3	0	10	0	0	2	0	12	0	12	0	4	6	8	0	6	0
CH-21 Sorties	30	12	0	30	0	0	14	0	36	0	48	0	72	20	16	0	36	0
CH-34s Escorted	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	20
CH-34 Sorties	0	0	0	0	0	64	0	0	0	0	0	0	0	0	0	0	0	80
UH-1Bs Escorted (transport)	0	0	0	0	1	0	0	2	12	1	0	1	0	0	1	1	0	0
UH-1B Sorties (transport)	0	0	0	0	4	0	0	6	36	2	0	5	0	0	2	3	0	0
Mr Landing Zones Protected	2	2	3	1	3	1	6	2	8	1	3	4	3	2	1	2	1	1
Mr Medical Evac Missions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mr Prisoner Pickups	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mr Eagle Flights	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Mission Duration (hours)	5	2	5	5	5	4	8	2	16	1	6	4	2	4	5	2	6	5

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TABLE 2 (cont)
MISSION SUMMARY
1-31 July 1963

Date	26 July	27 July	27 July	28 July	28 July	28 July	28 July	28 July	29 July	29 July	30 July	30 July	31 July						
Mission Nr	176	177	178	179	180	181	182	183	184	185	186	187	188						188
UH-1Bs Used (armed)	2	6	2	3	3	5	3	5	5	2	2	2	2						184
UH-1B Sorties (armed)	16	25	6	4	6	11	6	26	60	20	5	4	16						1068
Combat Support Hours Flown by UH-1Bs	7	31	6	6	6	30	3	22	29	10	6	5	6						620
CH-21s Escorted	0	6	2	0	0	16	0	0	0	0	0	0	2						159
CH-21 Sorties	0	24	6	0	0	80	0	0	0	0	0	0	20						715
CH-34s Escorted	0	0	0	0	0	0	0	21	0	0	0	0	0						80
CH-34 Sorties	0	0	0	0	0	0	0	42	0	0	0	0	0						233
UH-1Bs Escorted (transport)	1	6	0	0	4	6	4	4	5	0	0	0	0						60
UH-1B Sorties (transport)	6	24	0	0	8	30	8	8	30	0	0	0	0						224
Mr Landing Zones Protected	6	4	3	0	1	5	0	2	2	0	0	0	2						105
Mr Medical Evac Missions	0	0	0	0	0	0	0	0	0	0	0	0	0						0
Mr Prisoner Pickups	0	0	0	0	0	0	0	0	0	0	0	0	0						0
Mr Eagle Flights	0	0	0	0	0	1	0	0	1	0	0	0	0						3
Mission Duration (hours)	7	11	7	2	3	13	1	9	13	10	4	5	6						274
TOTALS																			

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TABLE 3
TARGET RECOGNITIONS
1-31 July 1963

Date	4 July	4 July	5 July	5 July	6 July	6 July	7 July	8 July	8 July	9 July	9 July	10 July	11 July	11 July	12 July	12 July	13 July	13 July
Mission Nr	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157
Landing Zones Protected	1	1	2	2	3	2	1	4	1	1	3	2	2	2	1	1	2	4
Landing Zones Contested	0	0	0	0	2	1	1	0	1	0	0	2	0	0	1	0	0	4
Inurgent Positions Detected In:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Open Fields	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trees & Wood Line	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inurgents Seen Firing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inurgent Fires Only Seen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inurgent Fires Identified by Type:																		
Rifle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Automatic Weapon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rounds Expended by UH-1B:	7.62 mm Rocket	0	0	0	0	25,000	500	600	0	9200	0	0	1600	0	0	6330	0	5100
	2.75 " Rocket	0	0	0	0	98	40	0	62	0	0	71	0	0	66	0	0	87
Estimated Inurgent Casualties	0	0	0	0	12	5	1	0	30	0	0	0	0	0	36	0	0	24
US Casualties	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
UH-1a Hit/Air Hits	0	0	0	0	1/1	0	0	0	0	0	0	0	0	0	1/1	0	0	0

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TABLE 3 (Cont'd)

TARGET ENGAGEMENTS

1-31 July 1963

Date	14	15	16	16	17	18	18	19	19	19	20	19	22	23	23	24	24	
	July	July	July	July	July	July	July	July	July	July	July	July	July	July	July	July	July	
Mission Nr	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
Landing Zones Protected	2	2	3	1	3	1	6	2	8	1	3	3	4	2	1	2	1	1
Landing Zones Contested	2	0	0	1	0	0	0	2	4	0	3	0	0	2	1	1	0	0
Insurgent Positions Detected In:	Open Fields	0	0	0	X	0	0	0	0	X	X	X	0	X	0	0	0	0
	Trees & Wood Line	X	0	0	X	0	0	X	X	X	X	X	0	X	X	X	X	X
	Buildings	X	0	0	X	0	0	0	X	0	0	X	0	0	X	0	0	0
	Boats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insurgents Seen Firing	X	0	0	X	0	0	0	X	X	0	X	0	0	X	X	0	0	0
Insurgent Fires Only Seen	X	0	0	X	0	0	0	0	0	0	X	0	0	0	X	X	0	X
Insurgent Fires Identified by Type:	Rifle	X	0	0	X	0	0	0	X	0	X	X	0	X	X	X	0	X
	Automatic Weapon	X	0	0	X	0	0	0	0	0	X	0	0	X	X	X	0	0
Rounds Expended by UH-1B:	7.62 mm Rocket	200	0	0	8000	0	0	0	400	1150	0	12,700	1,000	0	25,500	2500	50	0
	2.75" Rocket	14	0	0	42	0	0	0	4	39	0	71	0	0	153	30	0	0
Estimated Insurgent Casualties	Unk	0	0	75	0	0	0	Unk	20	0	15	0	0	225	40	0	0	0
US Casualties	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UH-1s Hit/Mr Hits	1/1	0	0	2/3	0	0	0	0	0	0	0	3/9	0	2/4	0	1/1	0	0

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TABLE 3 (Cont'd)
TARGET ENGAGEMENTS
1-31 July 1963

TOTALS														
Date	26 July	27 July	27 July	28 July	28 July	28 July	28 July	28 July	29 July	29 July	30 July	30 July	31 July	
Mission Nr	176	177	178	179	180	181	182	183	184	185	186	187	188	189
Landing Zones Protected	6	4	3	0	1	5	0	2	2	1	0	0	2	107
Landing Zones Contested	0	4	0	0	1	5	0	2	2	1	0	0	2	44
Insurgent Positions Detected In:	Open Fields	0	X	0	0	X	0	X	0	X	0	0	X	12
	Trees & Wood Lns	0	X	0	X	X	X	0	X	0	X	X	X	26
	Buildings	0	0	0	0	0	0	0	0	0	0	0	0	8
	Boats	0	0	0	0	0	0	0	0	0	0	0	0	1
Insurgents Seen Firing	0	X	0	0	X	X	0	X	0	X	0	0	X	18
Insurgent Fires Only Seen	0	X	0	X	0	X	0	X	0	X	X	X	X	19
Insurgent Fires Identified by Type:	Rifle	0	X	0	X	X	0	X	0	X	X	X	X	26
	Automatic Weapon	0	0	0	0	X	X	0	X	0	X	X	0	16
Rounds														
Expended by UH-1B:	7.62 mm Rocket	0	1400	0	0	4800	5400	0	12,000	4000	9500	14,000	6000	1000
	2.75" Rocket	0	6	0	0	79	26	0	33	16	96	4	32	6
Estimated Insurgent Casualties	0	29	0	0	31	49	0	56	16	18	4	13	4	703
US Casualties	0	0	0	0	0	0	0	0	0	1	0	1	0	4
UH-1a Hit/Mr Hits	0	0	0	1/1	0	0	0	0	0	1/1	0	0	1/2	14/25

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TABLE 4
GROUND FIRE DAMAGE REPORT SUMMARY
1-31 July 1963

Date acft hit	Acft alt (ft)	Acft speed (kts)	Nr of passes over same area	Insurgent environment	Clock direction of fire*	Est range of source of fire (meters)	Casual- ties sus- tained	Nr of pro- jec- tiles rec'd
6 July	250	70	3	Hill 500 M West of LZ	11	600	1 KIA	1
12 July	20	95	Enroute	Wooded area	3	30	1 WIA	1
14 July	50	100	1	Village in wooded area	3	50	0	1
14 July	30	70	1	Wooded area	3	200	0	2
16 July	25	70	2	Tree line	11	100	0	1
20 July	50	90	2	Wooded area	Under Aircraft	20	1 WIA	2
20 July	300	85	2	Village in Wooded area	9	300	0	1
20 July	300	80	4	Village in Wooded area	9	50	0	6
22 July	150	85	1	Tree line	12	75	0	3
22 July	200	85	2	Tree line	9	100	0	1
23 July	200	90	1	Village in Wooded area	11	100	0	1
28 July	1500	70	1	Unk	12	Unk	0	1
29 July	75	80	3	Tree line	3	200	1 WIA	1
31 July	25	85	1	Cemetery	8	30	0	2
						TOTALS	1 KIA 3 WIA	<u>14</u> 24

* With reference to nose of helicopter (1200)

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TABLE 5
UH-1B AVAILABILITY
1-12 July 69

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ASIGNED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ON HAND	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
AVAILABLE	18	18	19	19	18	17	14	10	18	20	16	14	10	19	18
IN ORGN PAINT	0	1	1	0	1	2	5	1	0	0	0	0	0	0	0
FIELD MAINT	2	1	0	1	1	1	1	3	2	0	0	1	1	1	2
REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERCENT AVAILABLE	90	90	95	95	90	85	70	80	90	100	100	95	95	95	90

- NOTES: 1) "OTHER" represents crashed aircraft or aircraft being processed for shipment. These aircraft were not available for missions and are not included in the availability percentage.
- 2) "FLYABLE" + "NON-FLYABLE" = "ON HAND".
- 3) "PERCENT AVAILABLE" is the ratio of aircraft available to aircraft "ON HAND".

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TABLE 5 (Cont'd)
ON-JOB AVAILABILITY
1-31 July 63

DATE	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Daily Average
ASSIGNED	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ON HAND	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
FLYABLE	18	18	17	17	13	12	16	15	15	8	6	14	15	12	12	16	16.03
NON-FLYABLE	2	2	3	3	7	8	4	5	5	12	14	6	5	8	8	4	4.0
IN OTHER MAINT	0	0	1	0	3	1	0	1	2	0	0	0	0	0	2	0	.06
IN FIELD MAINT	2	2	2	3	4	7	4	4	3	12	14	6	5	8	6	4	3.03
EDP	0	0	0	0	0	0	0	0	3	6	7	3	2	3	2	2	.09
PERCENT AVAILABLE	90	90	85	85	65	60	80	75	75	40	30	70	75	60	60	80	80

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TABLE 6
AMMUNITION EXPENDITURE

Dates	15 Oct 62 - 30 June 63	1-31 July 63				15 Oct - 31 July 63
Types of Ammunition	7.62mm	2.75" Rocket	7.62mm	2.75" Rocket	7.62mm	2.75" Rocket
Rounds Expended	278,190	2,353	145,030	1,075	423,220	3,428
Gun or Tube Days	3,598	12,977	2,000	7,040	5,598	20,017
Expenditure Rate per Gun or Tube	77	.18	73	.16	76	.17
Day of Supply per Gun or Tube	3	1	3	1	3	1

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- 1) The expenditure rate for a given type of ammunition is computed by the formula $\frac{RD}{GTD} \times 100$, where RD= number of rounds expended, GTD= gun or tube days, and B= expenditure rate per gun or tube per day of engagement. GTD is computed by multiplying the number of days on which ammunition of a given type was expended by the number of guns or tubes which can use that type.
- 2) The day of supply is determined by dividing the expenditure rate per gun or tube by the number of days in the month (assumed to be 30); where the quotient includes a fraction, the next larger whole number is used.

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